



Technical Data Sheet

4/17/2012

Flexane® High Performance Putty

reduction.

Intended Use: Protect equipment surfaces from wear and abrasion.

Protect processing equipment such as coating hoppers, lining chutes, pump volutes, impellers, and fan housings.

A tough, rubber-like urethane compound for making a broad range of repairs to protect against wear, abrasion, and noise

Product Excellent tear resistance

features: Mixes easily

Bonds (with primers) to metal, concrete, rubber, wood, and fiberglass

Highly resistant to impact and abrasion

Trowels on smoothly

Limitations:

Description:

Keep from freezing. The resin may crystallize if exposed to temperatures below 50 °F. This does not affect the properties of the product. If after opening, resin has an opaque, whitish color, apply lid and allow can to stand at 70 °F overnight or until resin becomes clear.

Typical Physical Properties: Technical data should be considered representative or typical only and should not be used for specification purposes.

Cured 7 days @ 75° F

Maximum Elongation

Abrasion Resistance 140 mg loss per 1,000 revolu Color Black

600%

Coverage/lb 94 sq.in./lb. @ 1/4"
Cured Hardness 78A
Cured Shrinkage 0.12 in./in.
Demolding Time 10 hrs.
Dielectric Strength 350 volts/mils
Functional Cure 16 hours

Maximum Operating Temperature Dry: 180°F; Wet: 120°F
Mix Ratio 94 resin:6curing agent / wt.

Mixed Viscosity Putty
Percent Solids by Volume 88

Pot Life 10 min. @ 75°F Specific Volume 23.5 in.(3)/ lb. Tear Resistance 400 pli Tensile Strength 4,500 psi

TESTS CONDUCTED

Cure Snrinkage AS IM D 2555
Tensile Strength (Urethanes) ASTM D 412
Maximum Elongation ASTM D 412
Tear Resistance ASTM D 624
Dielectric Strength, volts/mil ASTM D 149
Cured Hardness Shore D ASTM D 2240

Surface Preparation:

For METAL SURFACES, thoroughly clean area to be repaired, rebuilt, or lined with Devcon® Cleaner Blend 300. Remove any oil, grease, or dirt. Roughen surface by grinding with a coarse wheel or an abrasive disc pad. To prime this surface, apply a coat of Devcon FL-10 Primer and allow to dry tack-free for 15 minutes. If the metal surface requires maximum tear resistance or is exposed to moisture, or if submerged in water, use Devcon® FL-10 and Devcon® FL-20 Primer.

For RUBBER SURFACES, thoroughly clean area with an abrasive pad and Devcon® Cleaner Blend 300. Surface can also be roughened with a grinding wheel so that it is coarse and free from oil and dirt that may clog the "pores" of the rubber. Wipe or roughen surface with Cleaner Blend 300 until the cloth no longer picks up the color of the rubber. The rubber should appear new or deeper in color. To prime this surface, apply a coat of Devcon® FL-20 Primer and allow to dry tackfree for 15-20 minutes. Use Devcon®FL-40 Primer on "hard-to-bond" rubber surfaces as this gives ultimate peel resistance. Multiple coats may be necessary for porous rubber surfaces.

For MAXIMUM ADHESION, sandblast the surface with an angular abrasive until a minimum depth profile of 2-3 mils is met. Blast to near-white finish specification SSPC-SP5 (Steel Structure Painting Council). Prime surface immediately after sandblasting to prevent oxidation.

Mixing Instructions:

---- To ensure proper cure speeds and hardness, mix Flexane at a temperature between 65°F-85°F. ----

FOR 1 LB. UNITS

- 1.Add hardener to resin.
- 2.Vigorously mix with screwdriver or spatula for two minutes, while continuously scraping material away from sides and bottom of container. NOTE: Flexane putties will thicken rapidly during these first two minutes of mixing, but this DOES NOT mean that the polymer is curing.
- 3. Transfer the mixed material to the plastic container (included in kit).
- 4. Wipe spatula clean, and stir again for two more minutes.
- 5. Continue to mix until a uniform, streak-free consistency is obtained.

FOR 4 LB. UNITS

Use a propeller-type Jiffy Mixer Model ES on an electric drill.

Mix until color is uniform and consistent (approx 4-6 min.), while continuously scraping material away from sides and bottom of container.

NOTE: Completely submerge propeller, otherwise large amounts of air will be added resulting in air bubbles on the finished product's surface.

Application Instructions:

---- FOR MAXIMUM ADHESION, apply a suitable Devcon primer to all substrates prior to application. ----

Metals FL-10 Primer (2 coats)

Rubber FL-20 Primer
Wood FL-20 Primer
Fiberglass FL-20 Primer
Concrete FL-20 Primer
Rigid Plastics FL-20 Primer

- 1.Brush a thin coat of Flexane over the substrate, then pour from one side of the mold to the other side, so as to evacuate any air as the Flexane fills the area.
- 2.Gently blow hot air over the finished surface to ensure a perfect mold with no blow holes or air entrapment. Use a hot air gun and gently wave over the surface to break all the air bubbles.
- 3.Allow to cure six (6) hours before returning equipment to light service. The repair may then be ground flush using a 24 or 36 grit sanding disc. Do not overheat the work surface. Full cure takes seven (7) days @ 70°F.

ADDITIONAL INFORMATION

Flexane Accelerator is used to increase Flexane's cure speed at temperatures as low as 32 °F. One-half tsp. (2 gms) of Accelerator reduces the cure time of 1 lb. of Flexane by 50%. Use 2 tsp. or less of Accelerator for each 1 lb. of Flexane. See Flexane Accelerator TDS for further information.

Storage:

Store at room temperature, 70 °F.

Compliances:

none

Chemical Resistance:

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75 °F)

Aluminum Sulfate 10% Cutting Oil Hydrochloric 10% Isopropanol Methyl Ethyl Ketone Phosphoric 10% Fair Phosphoric 10% Fair	1,1,1-Trichloroethane	Poor
Hydrochloric 10% Fair Isopropanol Poor Methyl Ethyl Ketone Poor Phosphoric 10% Fair	Aluminum Sulfate 10%	Very good
Isopropanol Poor Methyl Ethyl Ketone Poor Phosphoric 10% Fair	Cutting Oil	Fair
Methyl Ethyl Ketone Poor Phosphoric 10% Fair	Hydrochloric 10%	Fair
Phosphoric 10% Fair	Isopropanol	Poor
	Methyl Ethyl Ketone	Poor
DI 1 : 500/	Phosphoric 10%	Fair
Phosphoric 50% Fair	Phosphoric 50%	Fair

Potassium Hydroxide 40%	Very good
Sodium Hydroxide 50%	Very good
Sulfuric 50%	Fair
Xylene	Poor

Precautions:

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

For technical assistance, please call 1-800-933-8266

FOR INDUSTRIAL USE ONLY

Warranty:

Devcon will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data.

Order Information:

15330 1 lb. kit